Roll. No	Question Booklet Number	
O.M.R. Serial No.		

# B.Sc. (SEM.-VI) (NEP) (SUPPLE.)EXAMINATION, 2024-25 BIOTECHNOGOLY

(Recombinant DNA Technology)

Paper Code							
Z	0	1	0	1	1	7	T

**Time: 1:30 Hours** 

[ BBT-6001 ]

Question Booklet Series

A

Max. Marks: 75

# Instructions to the Examinee :

- Do not open the booklet unless you are asked to do so.
- The booklet contains 100 questions.
   Examinee is required to answer 75 questions in the OMR Answer-Sheet provided and not in the question booklet.
   All questions carry equal marks.
- Examine the Booklet and the OMR
   Answer-Sheet very carefully before you proceed. Faulty question booklet due to missing or duplicate pages/questions or having any other discrepancy should be got immediately replaced.
- 4. Four alternative answers are mentioned for each question as A, B, C & D in the booklet. The candidate has to choose the correct / answer and mark the same in the OMR Answer-Sheet as per the direction:

(Remaining instructions on last page)

## परीक्षार्थियों के लिए निर्देश :

- प्रश्न-पुस्तिका को तब तक न खोलें जब तक आपसे कहा न जाए।
- 2. प्रश्न-पुस्तिका में 100 प्रश्न हैं। परीक्षार्थी को 75 प्रश्नों को केवल दी गई OMR आन्सर-शीट पर ही हल करना है, प्रश्न-पुस्तिका पर नहीं। सभी प्रश्नों के अंक समान हैं।
- उ. प्रश्नों के उत्तर अंकित करने से पूर्व प्रश्न-पुस्तिका तथा OMR आन्सर-शीट को सावधानीपूर्वक देख लें। दोषपूर्ण प्रश्न-पुस्तिका जिसमें कुछ भाग छपने से छूट गए हों या प्रश्न एक से अधिक बार छप गए हों या उसमें किसी अन्य प्रकार की कमी हो, उसे तुरन्त बदल लें।
- प्रश्न-पुस्तिका में प्रत्येक प्रश्न के चार सम्भावित उत्तर- A, B, C एवं D हैं। परीक्षार्थी को उन चारों विकल्पों में से सही उत्तर छाँटना है। उत्तर को OMR उत्तर-पत्रक में सम्बन्धित प्रश्न संख्या में निम्न प्रकार भरना है:

(शेष निर्देश अन्तिम पृष्ठ पर)

- 1. BAC vectors have less cloning capacity than:
  - (A) Plasmids
  - (B) Phasmids
  - (C) Cosmids
  - (D) YAC
- 2. A molecular technique in which DNA sequences between two oligonucleotide primers can be amplified is known as
  - (A) Southern blotting
  - (B) Northern blotting
  - (C) Polymerase chain reaction
  - (D) DNA replication
- Find the microorganism that can be the source of the restriction endonuclease XhoI.
  - (A) Xanthomonas oryzae
  - (B) Xanthomonas campestris
  - (C) Xanthomonas holicicola
  - (D) Xanthomonas badrii
- 4. Which type of restriction endonucleases is used most in recombinant DNA technology?
  - (A) Type I
  - (B) Type II
  - (C) Type III
  - (D) Type IV
- 5. Pairs of restriction enzymes that have same recognition sequences but cuts it differently, are called
  - (A) Isoschizomers

- (B) Neoschizomers
- (C) Isocaudomers
- (D) None of these
- 6. Type II restriction endonulease
  - (A) Cleave within recognition site
  - (B) Do not require ATP
  - (C) Most require divalent cation for optimum activity
  - (D) All of the above
- 7. The recognition sequence for KpnI is 5'-GGTAC/C-3'. The '/' represents the cutting site. What can be inferred about the ends from it?
  - (A) The ends created are double stranded
  - (B) The single stranded end is 5' in nature
  - (C) The single stranded end is 3' in nature
  - (D) To decide about the nature of the ends more information is needed
- 8. pUC vector series was developed at
  - (A) University of Calgary
  - (B) University of California
  - (C) University of Chicago
  - (D) University of Calcutta

- 9. Choose the correct statement for cosmids.
  - (A) It can be regarded as lambda substitution vector
  - (B) Less amount of phage DNA is deleted
  - (C) Only cos packaging sites are left
  - (D) It doesn't contains a origin of replication
- 10. Which size of the insert is accepted by the cosmids?
  - (A) 10-20 kb
  - (B) 35-45 kb
  - (C) 50-60 kb
  - (D) 100-120 kb
- 11. The extra chromosomal, naturally occurring, self-replicating, double stranded circular DNA molecules are called
  - (A) PPLO
  - (B) Plasmids
  - (C) MLO
  - (D) Phages
- 12. The correct order of the three steps involved in PCR is
  - (A) Annealing, extension, and denaturation
  - (B) Extension, denaturation, and annealing

- (C) Denaturation, annealing, and extension
- (D) Denaturation, extension, and annealing
- 13. Southern blotting is performed for
  - (A) Detection of the DNA
  - (B) Sequencing of DNA
  - (C) Quantification of RNA
  - (D) Detection of the RNA
- 14. Thermus aquaticus is the well-known source of
  - (A) T7 RNA Polymerase
  - (B) Terminal Transferase
  - (C) Aquaporin
  - (D) Thermostable DNA
    Polymerase
- 15. Sanger method is used in
  - (A) Primer designing
  - (B) DNA sequencing
  - (C) In-vitro transcription
  - (D) DNA fingerprinting
- 16. Cutting DNA at each restriction sites creates multiple
  - (A) Restriction enzymes
  - (B) Restriction fragments
  - (C) Genomic libraries
  - (D) Single stranded RNA

- 17. A DNA sequence is having two ends, 5' and 3'. Which of the following statements is correct regarding the nature of the ends?
  - (A) The 5' end is having hydroxyl group
  - (B) The 5' end is having phosphate group
  - (C) The 3' end is having phosphate group
  - (D) Any group can be present at any end
- 18. The term 'endonuclease' refers to cutting the DNA sequence
  - (A) Only within the polynucleotide chain, not at the ends
  - (B) at the ends of the chain
  - (C) anywhere in the chain
  - (D) exactly in the middle of the chain
- 19. The Northern hybridization technique depends on
  - (A) Similarities between the sequences of probe DNA and experimental DNA
  - (B) Similarities between the sequences of probe RNA and experimental RNA
  - (C) Similarities between the sequences of probe protein and experimental protein
  - (D) The molecular mass of proteins

- 20. Which of the following is the basic requirement of PCR reaction?
  - (A) Two oligonucleotide primers
  - (B) DNA segment to be amplified
  - (C) A heat-stable DNA polymerase
  - (D) All of the above
- 21. If any protein-encoding gene is expressed in a heterologous host, it is called a
  - (A) Pure protein
  - (B) Mixed protein
  - (C) Recombinant protein
  - (D) Similar protein
- 22. What does pBR stand for, in the pBR322 cloning vector?
  - (A) Plasmid Boliver and Rodriguez
  - (B) Plasmid Baltimore and Rodriguez
  - (C) Plasmid bacterial recombination
  - (D) Plasmid bacterial replication
- 23. Which of the statement is true for pUC19 vector?
  - (A) It contains both ampicillin resistant and tetracycline resistant gene
  - (B) It contains only an ampicillin resistance gene
  - (C) Blue-White screening cannot be performed with this vector
  - (D) The size of this vector is 10 Kb

- 24. Identify the desirable properties of plasmid cloning vehicles.
  - (A) Multiple cloning sites
  - (B) Selectable marker
  - (C) Low molecular weight
  - (D) All of the above
- 25. The process of introducing DNA molecules into the recipient host organism is known as
  - (A) Translation
  - (B) Transformation
  - (C) Transduction
  - (D) Transcription
- 26. Identify the correct order for the following cloning vectors in terms of cloning capacity
  - (A) Cosmid>BAC>YAC
  - (B) BAC>YAC>Cosmid
  - (C) YAC>BAC>Cosmid
  - (D) BAC>YAC>Cosmid
- 27. If a plasmid is having two antibiotic resistant genes, say ampicillin resistant and kanamycin resistant. If insertional inactivation of the ampicillin gene takes place during cloning process, then the recombinant clones will grow on medium containing
  - (A) Ampicillin
  - (B) Kanamycin
  - (C) Both kanamycin and ampicillin
  - (D) None of the above

- 28. The cos packaging sites are feature of
  - (A) Plasmids
  - (B) Fosmids
  - (C) Cosmids
  - (D) Ti Vector
- 29. The gene which was used to produce insect resistant transgenic cotton plant was taken from
  - (A) Bacillus clausii
  - (B) Agrobacterium tumefaciens
  - (C) Bacillus subtilis
  - (D) Bacillus thuringiensis
- 30. Pronuclear Microinjection method is used to create
  - (A) Transgenic plant
  - (B) Novel fungal strains
  - (C) Recombinant microbes
  - (D) Transgenic mice
- 31. Dolly is the name of the
  - (A) First cloned sheep
  - (B) First cloned monkey
  - (C) First test-tube baby
  - (D) First human fossil
- 32. Embryonic stem cells are
  - (A) Totipotent stem cells
  - (B) Pluripotent stem cells
  - (C) Multipotent stem cells
  - (D) Omnipotent stem cells

- 33. Which of the following can be termed as a bacterial restriction-modification system?
  - (A) DNA ligase + Methylase
  - (B) DNA ligase + Acetylase
  - (C) Restriction endonuclease + Acetylase
  - (D) Restriction endonuclease + Methylase
- 34. Identify the correct recognition site for the restriction endonuclease EcoRI.
  - (A) 5'-AAGCTT-3'
  - (B) 5'-GAATTC-3'
  - (C) 5'-GGATTC-3'
  - (D) 5'-CCCGGG-3'
- 35. DNA Z was digested with restriction enzyme EcoRI and analyzed by agarose gel electrophoresis. If DNA Z gave four fragments,
  - then which of the following are correct?
  - (A) DNA Z has two restriction recognition sites and is circular
  - (B) DNA Z has three restriction recognition sites and is circular
  - (C) DNA Z has three restriction recognition sites and is linear
  - (D) DNA Z has four restriction recognition sites and is linear

- 36. This enzyme is used to dephosphorylate the vector.
  - (A) Polynucleotide Kinase
  - (B) Terminal Deoxynucleotidyl
    Transferase
  - (C) Alkaline Phosphatase
  - (D) Restriction Endonuclease
- 37. In blue-white screening, what do blue colonies represent?
  - (A) Cells that have not taken up the plasmid vector
  - (B) Cells with recombinant plasmids containing a new insert
  - (C) Cells containing empty plasmid vectors
  - (D) Cells with a non-functional lacZ gene
- 38. Identify the chromogenic substrate used in the blue-white screening.
  - (A) IPTG
  - (B) X-gal
  - (C) EtBr
  - (D) SYBR Green
- 39. DNA fingerprinting was developed by
  - (A) Francis Crick
  - (B) Alec Jeffrey
  - (C) James Watson
  - (D) Nathan, Arber and Smith

- 40. The Ti plasmid is used for introducing genes into
  - (A) Animal Cells
  - (B) Plant Cells
  - (C) Bacteriophages
  - (D) Only mammalian cells
- 41. Which of the following can be used to identify the genetic disorders?
  - (A) Centrifugation
  - (B) PCR
  - (C) Chromatography
  - (D) All of the above
- 42. Find the range of size (Minimum-Maximum) of DNA that can be packaged into a ? phage is
  - (A) 10 Kb 45 Kb
  - (B) 38 Kb 52 Kb
  - (C) 70 Kb 100 Kb
  - (D) 29 Kb 49 Kb
- 43. What are BAC vectors?
  - (A) Bacterial artificial vectors
  - (B) Bacterial aggregative vectors
  - (C) Bacterial artificial chromosomes
  - (D) Bacterial aggregative chromosomes
- 44. Which of the following company in 1983 used recombinant DNA technology to produce insulin?
  - (A) Amy Sanger
  - (B) Eli Lilly

- (C) Lilly Rose
- (D) Emily Lilly
- 45. Inner cell mass of the blastocyst is the source of
  - (A) Embryonic Stem cells
  - (B) Somatic Cells
  - (C) Multipotent stem cells
  - (D) Totipotent cells
- 46. Recombinant plasmids are added to a bacterial culture that has been pretreated with \_\_\_\_\_\_\_ions.
  - (A) Magnesium
  - (B) Iodine
  - (C) Calcium
  - (D) Ferric
- 47. The ability of cells to uptake DNA fragments from the surroundings is known as
  - (A) HFR
  - (B) Competence
  - (C) Fecundity
  - (D) Fitness
- 48. Which of the following enzymes in bacteria are responsible for restricting the growth of viruses?
  - (A) Protease
  - (B) Gyrase
  - (C) Topoisomerase
  - (D) Restriction endonuclease

- 49. The direct repeats flanking the T-DNA of Agrobacterium tumefaciens are known as
  - (A) Flanking sequences
  - (B) Border sequences
  - (C) Transfer sequences
  - (D) Inverted sequences
- 50. Which of the following statements is correct concerning methods of production of transgenic mice?
  - (A) Retrovirus-mediated gene transfer method is used to create transgenic mice
  - (B) Pronuclear Microinjection is used to create transgenic mice
  - (C) Embryonic stem cell-mediated gene transfer is used to create transgenic mice
  - (D) All of the above
- 51. Disarmed Ti vectors lack
  - (A) vir genes
  - (B) Left and right border sequences
  - (C) Oncogenes located in the T-DNA region
  - (D) Opine catabolic genes
- 52. Hindi III is a...
  - (A) Ligase
  - (B) Exonuclease
  - (C) Restriction Endonuclease
  - (D) RNaseH

- 53. In a gel electrophoresis experiment, the visualization of DNA is facilitated by addition of
  - (A) Bromophenol blue
  - (B) Ethidium bromide
  - (C) Ortho-xylene
  - (D) Texas red
- 54. The complete set of proteins expressed by an organism is called
  - (A) Gene
  - (B) Genome
  - (C) Genomics
  - (D) Proteome
- 55. Which of the following is the correct order of steps when performing a southern blot after isolation of the DNA?
  - (A) Probe hybridization, restriction enzyme digestion, denaturation, electrophoresis
  - (B) Denaturation, electrophoresis, probe hybridization, restriction enzyme digestion
  - (C) Restriction enzyme digestion, electrophoresis, denaturation, probe hybridization
  - (D) Electrophoresis, Restriction enzyme digestion, probe hybridization, denaturation

- 56. Klenow fragment is the modified enzyme of which of the parent DNA polymerase?
  - (A) DNA Polymerase I
  - (B) DNA Polymerase II
  - (C) DNA Polymerase III
  - (D) DNA Polymerase IV
- 57. Which of the following part of vector helps in identifying transformed cells?
  - (A) Multiple cloning sites
  - (B) Selectable marker
  - (C) Origin of replication
  - (D) All of the above
- 58. Which antibiotic resistance is present in pBR322 vector?
  - (A) Ampicillin
  - (B) Kanamycin
  - (C) Tetracycline
  - (D) Both ampicillin and tetracycline
- 59. The first human protein produced through recombinant DNA technology is
  - (A) Insulin
  - (B) Interferon
  - (C) Somatostatin
  - (D) Erythropoietin
- 60. Arrange the varioussteps of DNA fingerprinting technique in the correct order
  - (i) Separation of DNA fragments by electrophoresis

- (ii) Digestion of DNA by restriction endonucleases
- (iii) Hybridization using labeled probe
- (iv) Isolation of DNA
- (v) Detection of hybridized DNA fragments by autoradiography
- (vi) Transferring the separated DNA fragments to nitrocellulose membrane
- (A)  $(i) \rightarrow (ii) \rightarrow (iii) \rightarrow (iv) \rightarrow (v)$  $\rightarrow (vi)$
- (B)  $(iv) \rightarrow (ii) \rightarrow (i) \rightarrow (vi) \rightarrow (iii)$  $\rightarrow (v)$
- (C)  $(iii) \rightarrow (v) \rightarrow (iv) \rightarrow (ii) \rightarrow (i)$  $\rightarrow (vi)$
- (D)  $(iv) \rightarrow (i) \rightarrow (ii) \rightarrow (vi) \rightarrow (iii)$  $\rightarrow (v)$

The various steps for construction of genomic libraries are:

- (i) Fragmentation of DNA
- (ii) Isolation of genomic DNA
- (iii) Ligation and introduction to the host, and
- (iv) Vector preparation. The correct order of construction of libraries is (In the order of starting to ending).
- (A) (i)-(ii)-(iv)
- (B) (ii)-(i)-(iv)
- (C) (ii)-(iv)-(iii)
- (D) (ii)-(ii)-(iv)

61.

- 62. Who discovered restriction enzymes?
  - (A) Watson and Crick
  - (B) Jacob and Monad
  - (C) Nathan, Arber and Smith
  - (D) Boyer and Cohen
- 63. Bacteria protect themselves from viruses by fragmenting viral DNA upon entry with
  - (A) Exonuclease
  - (B) Gyrase
  - (C) Endonuclease
  - (D) Ligase
- 64. What is the characteristic of **lacZ** gene of pUC18 vector among the following?
  - (A) Encodes for antibiotic resistance
  - (B) Encodes for  $\beta$ -galactosidase enzyme
  - (C) Encodes for  $\beta$ -lactamase enzyme
  - (D) Encodes for  $\beta$ -galactoside transferase enzyme
- 65. What are YAC vectors?
  - (A) Yeast artificial vectors
  - (B) Yeast aggregative vectors
  - (C) Yeast artificial chromosomes
  - (D) Yeast aggregative chromosomes

- 66. The Ti (tumor inducing) plasmid is found in
  - (A) Agrobacterium
  - (B) Yeast as a 2-micron plasmid
  - (C) Rhizobium
  - (D) Azotobacter
- 67. The vir genes required for the T-DNA transfer are located
  - (A) Within the T-DNA region of the Ti plasmid
  - (B) Outside of the T-DNA region of the Ti plasmid
  - (C) On the plant genome
  - (D) On the chloroplast genome
- 68. Identify the DNA virus that have been developed as vector for the gene transfer to the plant cell
  - (A) Tobacco mosaic virus
  - (B) Cauliflower mosaic virus
  - (C) Brome mosaic virus
  - (D) Potato virus X
- 69. Gene transfer across the protoplast membrane is promoted by
  - (A) Phenol
  - (B) Benzoic acid
  - (C) Polyethylene glycol
  - (D) Naphthalene
- 70. Creation of mutant proteins with novel properties is called
  - (A) Cloning
  - (B) Protein engineering
  - (C) Walking
  - (D) Sequencing

71.	Whic	Which of the following technique is			Origin of replication		
	not ir	nvolved in Protein Engineering?		(C)	tra sequence		
	(A)	Selection		(D)	genetic sequence		
	(B)	(B) Conjugation		Virus	Viruses which infect bacteria are called		
	(C)	Mutagenesis		(A)	Bacteria		
	(D)	Recombination Technology		(B)	Archaea		
72.	Whi	ch disease is caused by		(C)	pUC		
	Agro	bacterium tumefaciens?		(D)	Bacteriophages		
	(A)	Crown gall	78.		ch plasmid of Agrobacterium		
	(B) Carcinoma				faciens leads to tumor formation		
	(C)			in dic			
	(D)	Fungal infection		(A)	F plasmid		
73.	. ,	ability to cause crown gall disease		(B)	Ti		
73.		is associated with the presence of		(C)	pUC		
		within the bacterial cell.		(D)	pBR mathad by which recombinent		
	(A)	Plasmid	79.		method by which recombinant is directly injected into the		
	(B)	Origin			eus of an animal cell is called		
	(C)	Replication sites		(A)	Heat-shock		
	(D)	Polymerase		(B)	Microinjection		
74.	` ,	Which of the following is a plant virus?		(C)	Transferring		
	(A)			(D)	Insertional inactivation		
	(A) (B)	M13	80.	Which enzyme is active at 72°C in the			
	` ′	HIV		polyr	nerase chain reaction?		
	(C)			(A)	Isomerase		
7.5	(D)	RP4		(B)	Exonuclease		
75.		ch of the following is not an		(C)	Polymerase		
		cation of plasmid?		(D)	Endonuclease		
	(A)	Cloning	81.		h novel method of ensuring DNA		
	` ′	<ul><li>(B) Transfer of genes</li><li>(C) Manipulation of genes</li></ul>		-	ce into cells involves creating		
					ient pores in the cell membrane		
	(D)	Destroying organisms		(A)	plying an electric field?		
76.		The sequence of DNA from where			Gel electrophoresis Biolistic		
	repli	cation starts is called		(B) (C)	Electroporation		
	(A)	Selectable marker		(D)	PCR		
Z010	117T-A	/36 (1	2)				

82. Which of the following technique is "CTGGCGCCC". Identify the not used for Protein Engineering? mutation responsible for this change. DNA shuffling (A) (A) Deletion Error-prone PCR (B) (B) Insertion (C) rDNA technology (C) **Point Mutation** (D) **DNA** fingerprinting (D) Frame-shift Mutation Which one of the following is the 87. 83. Which of the following component is filamentous coliphages? not required in a basic PCR? (A) P1 DNA template (A) (B) **SV40** Two primers (B) (C) M13 (C) Thermostable DNA (D) λ-phage polymerase T7 promoter drives the expression of 88. Initiation and Elongation (D) cloned gene in **Factors** Which of the following is favored for (A) pUC19 vector 84. pBR322 vector (B) primer design? pET vector (C) (A) The melting temperature should be different for both the  $\lambda$ (D) pBSKS vector 89. RNA Polymerase is involved in the primers process of (B) Primers should be very long in Replication (A) length Translation (B) Primers should not be (C) Transcription (C) complementary to each other Repair None of the above (D) (D) 90. IPTG acts as 85. Wallace rule is used to (A) Antibiotic (A) Identify the active site of an (B) Repressor enzyme (C) Herbicide Calculate (B) the melting temperature of primers (D) Inducer 91. The process of DNA cutting and joining Predict the secondary structure

is usually performed in the

DNA synthesis

DNA degradation

DNA manipulation

DNA replication

(A)

(B)

(C)

(D)

(C)

(D)

86.

ofRNA

of proteins

Predict the primary structure

A DNA segment having sequence

"CTGGGGCCC" is converted in to

- 92. The research on host controlled restriction modification system is responsible for the discovery of
  - (A) DNA Polymerase III
  - (B) DNA Polymerase I
  - (C) Restriction Enzymes
  - (D) RNA Polymerase
- 93. Restriction enzymes are enzymes
  - (A) Capable of restricting protein synthesis
  - (B) Capable of cutting DNA molecules
  - (C) Capable of adding nucleotides to the 3'end of DNA
  - (D) Capable of joining DNA molecules
- 94. Alkaline Phosphatase enzyme.....
  - (A) Removes phosphate group from the 5' end of the DNA
  - (B) Add the phosphate group to the 5' end of the DNA
  - (C) Add phosphate group to the 3' end of the DNA
  - (D) Removes phosphate group from the 3' end of the DNA
- 95. Which enzyme is used to join together two different types of DNA molecules?
  - (A) Ligase
  - (B) Reverse transcriptase
  - (C) Transferase
  - (D) DNase

- 96. Which enzyme is used to generate complementary DNA (cDNA) from an mRNA template?
  - (A) RNA polymerase
  - (B) Reverse Transcriptase
  - (C) DNA Ligase
  - (D) RNA Methyltransferase
- 97. A cDNA library does not contain
  - (A) Coding DNA
  - (B) Noncoding DNA
  - (C) Both Coding and Noncoding DNA
  - (D) None of the above
- 98. A library encompassing an entire genome is called
  - (A) cDNA library
  - (B) tRNA library
  - (C) Genomic library
  - (D) mRNA library
- 99. Which of the following is true regarding restriction enzymes?
  - (A) Restriction enzymes are used to cut DNA molecule
  - (B) Restriction enzymes are used to construct restriction map
  - (C) Restriction enzymes are used in RFLP
  - (D) All of these
- 100. Single stranded unpaired extension formed by restriction enzyme upon digestion is known as
  - (A) Blunt ends
  - (B) Sticky ends
  - (C) Flush ends
  - (D) None of these

# Rough Work

### Example:

#### Question:

- Q.1 **A © D**
- Q.2 **A B O**
- Q.3 (A) (C) (D)
- Each question carries equal marks.
   Marks will be awarded according to the number of correct answers you have.
- All answers are to be given on OMR Answer Sheet only. Answers given anywhere other than the place specified in the answer sheet will not be considered valid.
- 7. Before writing anything on the OMR Answer Sheet, all the instructions given in it should be read carefully.
- 8. After the completion of the examination, candidates should leave the examination hall only after providing their OMR Answer Sheet to the invigilator. Candidate can carry their Question Booklet.
- 9. There will be no negative marking.
- 10. Rough work, if any, should be done on the blank pages provided for the purpose in the booklet.
- 11. To bring and use of log-book, calculator, pager & cellular phone in examination hall is prohibited.
- 12. In case of any difference found in English and Hindi version of the question, the English version of the question will be held authentic.

Impt. On opening the question booklet, first check that all the pages of the question booklet are printed properly. If there is any discrepancy in the question Booklet, then after showing it to the invigilator, get another question Booklet of the same series.

### उदाहरण :

#### प्रश्न :

प्रश्न 1 (A) ● (C) (D)

प्रश्न 2 (A) (B) ■ (D)

प्रश्न 3 **A ● C D** 

- प्रत्येक प्रश्न के अंक समान हैं। आपके जितने उत्तर सही होंगे, उन्हीं के अनुसार अंक प्रदान किये जायेंगे।
- सभी उत्तर केवल ओ०एम०आर० उत्तर-पत्रक (OMR Answer Sheet) पर ही दिये जाने हैं। उत्तर-पत्रक में निर्धारित स्थान के अलावा अन्यत्र कहीं पर दिया गया उत्तर मान्य नहीं होगा।
- 7. ओ॰एम॰आर॰ उत्तर-पत्रक (OMR Answer Sheet) पर कुछ भी लिखने से पूर्व उसमें दिये गये सभी अनुदेशों को सावधानीपूर्वक पढ़ लिया जाये।
- 8. परीक्षा समाप्ति के उपरान्त परीक्षार्थी कक्ष निरीक्षक को अपनी OMR Answer Sheet उपलब्ध कराने के बाद ही परीक्षा कक्ष से प्रस्थान करें। परीक्षार्थी अपने साथ प्रश्न-पुस्तिका ले जा सकते हैं।
- 9. निगेटिव मार्किंग नहीं है।
- 10. कोई भी रफ कार्य, प्रश्न-पुस्तिका में, रफ-कार्य के लिए दिए खाली पेज पर ही किया जाना चाहिए।
- परीक्षा-कक्ष में लॉग-बुक, कैल्कुलेटर, पेजर तथा सेल्युलर फोन ले जाना तथा उसका उपयोग करना वर्जित है।
- 12. प्रश्न के हिन्दी एवं अंग्रेजी रूपान्तरण में भिन्नता होने की दशा में प्रश्न का अंग्रेजी रूपान्तरण ही मान्य होगा।

महत्वपूर्णः प्रश्नपुस्तिका खोलने पर प्रथमतः जाँच कर देख लें कि प्रश्नपुस्तिका के सभी पृष्ठ भलीभाँति छपे हुए हैं। यदि प्रश्नपुस्तिका में कोई कमी हो, तो कक्षनिरीक्षक को दिखाकर उसी सिरीज की दूसरी प्रश्नपुस्तिका प्राप्त कर लें।